

Amendments to the Claims are as follows:

1. (Currently Amended) A housing cup (2) for an electronic component (4) ~~comprises, in which the~~ a housing cup formed with a cup base ~~is produced by extrusion, characterized in that~~  
wherein the cup base (7) is formed into a cooling body (8)  
that is integral integrated with the housing cup (2).

2. (Currently Amended) The housing cup (2) ~~as defined by~~ of claim 1,  
~~characterized in that~~ wherein the cooling body (8) includes a number of  
protrusions (9) protruding substantially in the axial direction from the cup base (7)  
~~substantially in the axial direction (10).~~

3. (Currently Amended) The housing cup (2) ~~as defined by~~ of claim 1,  
~~characterized in that~~ wherein at least one of the protrusions from the cooling  
body (9) is embodied formed in a pin-like, prism-like or lamination-like form.

4. (Currently Amended) The housing cup (2) ~~as defined by~~ of claim 1,  
~~characterized in that~~ wherein the housing cup (2) is substantially cylindrical.

5. (Currently Amended) The housing cup of Claim 2, ~~as defined by one of the~~  
~~foregoing claims,~~  
~~characterized in that the cooling body, and in particular~~ wherein at least one of  
its axial protrusions protrusion of the cooling body (9), is used for mechanical  
guidance.

6. (Currently Amended) The housing cup ~~as defined by one of the foregoing~~  
~~claims~~ of Claim 5,  
~~characterized in that~~ wherein the cooling body is embodied ~~as cooled~~ able  
directly or indirectly by ~~means of a fluid.~~

7. (Currently Amended) A capacitor comprising ~~in particular an electrolyte capacitor~~—having a housing cup formed with a cup base, wherein the cup base is formed into a cooling body integrated with the housing cup. ~~(2) as defined by one of the foregoing claims.~~

8. (Currently Amended) The capacitor ~~as defined by~~ of Claim 7, having a capacitor winding comprising:

- ~~two~~ first and second capacitor foils; ~~(12, 13)~~ and a dielectric ~~(14)~~,

wherein the capacitor winding being is wound such that a either the first or second capacitor foil protrudes out of the capacitor winding base ~~(15)~~, and

~~characterized in that wherein the cup base (7) is electrically contact~~sted by the protruding capacitor foil.

9. (Currently Amended) A ~~production~~ method for producing a housing, the method comprising:

using cup as defined by one of claims 1 through 6, in which a matrix is used during a pressing operation of a housing cup, wherein the matrix ~~which is provided in a base region with the negative shape of the cooling body; and~~

automatically molding the cooling body with the housing cup. ~~(8) to be embodied, and in the pressing operation of the housing cup (2), the cooling body (8) is automatically molded with it.~~

10. (Currently Amended) The ~~production~~ method as defined by ~~of~~ Claim 9, wherein ~~in which the matrix used, in its base region, includes a number of protrusions (9) protruding in the axial direction from the base region essentially in the axial direction (10).~~

11. (new) The housing of Claim 1, wherein at least one axial protrusion of the cooling body is used for mechanical guidance.

12. (new) The housing of Claim 1, wherein the cooling body is cooled directly

or indirectly by a fluid.

13. (new) The capacitor of Claim 7 wherein the cooling body includes a number of protrusions protruding substantially in the axial direction from the cup base.

14. (new) The capacitor of claim 7, wherein the housing cup is substantially cylindrical.

15. (new) The capacitor of Claim 7, wherein at least one axial protrusion of the cooling body is used for mechanical guidance.

16. (new) The capacitor of Claim 7, wherein the cooling body is cooled directly or indirectly by a fluid.

17. (new) The method of Claim 10, further comprising:  
using at least one of the axial protrusions as a mechanical guide.

18. (new) The method of Claim 9, further comprising:  
cooling the cooling body with fluid.